

ABSTRACT OF THE DISCLOSURE

An adsorption refrigeration system and method are
5 provided, the system comprising an adsorption pump which,
in use, is arranged in communication with a chamber
containing liquid and gaseous coolant. The associated
method comprises expanding the gaseous coolant into an
auxiliary volume member so as to cause the removal of part
10 of the gaseous coolant from the chamber. This causes a
reduction in the temperature and pressure of the gaseous
coolant in the chamber. The adsorption pump is then
operated so as to further cool the chamber by causing the
evaporation of the coolant liquid within the chamber.